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10/761,190	01/22/2004	Kun-tae Kim	Q78337	2320
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LIN, JASON K				
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**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

### Office Action Summary

**Application No.**

10/761,190

**Applicant(s)**

KIM, KUN-TAE

**Examiner**

JASON K. LIN

**Art Unit**

2425

**Period for Reply** -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 01 August 2008.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-3, 5-11, 13-15, 17 and 19 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-3, 5-11, 13-15, 17, and 19 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 22 January 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_\_
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date \_\_\_\_\_
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: \_\_\_\_\_

### DETAILED ACTION

1. This office action is responsive to application No. 10/761,190 filed on 08/01/2008.

**Claims 4, 12, 16, and 18** have been cancelled and **Claims 1-3, 5-11, 13-15, 17, and 19** are pending and have been examined.

#### *Response to Arguments*

2. Applicant's arguments, see Applicant's remarks, filed 08/01/2008, with respect to the rejection(s) of claim(s) 1-3, 5-11, 13-15, 17, and 19 under Margulis in view of Mizuno have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of Joung, Dantwala, and Saitoh. Please also see full rejection below.

#### *Claim Rejections - 35 USC § 103*

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. **Claims 1, 2, 10, 17, and 19** are rejected under 35 U.S.C. 103(a) as being unpatentable over Joung et al. (US 2003/0131360), in view of Dantwala et al. (US 6,847,406), and further in view of Saitoh et al. (US 6,839,851).

Consider **claim 1**, Joung teaches a set top box capable of performing wireless transmission (100-Fig.2; Paragraph 0022, 0025, 0075), the set top box comprising:

a digital television receiver, which converts a tuned digital broadcasting signal into a first transport stream (TS) (digital broadcast receiving unit 121-Fig.2; Paragraph 0044);

a TS converting unit (120-Fig.2);

a wireless processing module, which processes one of the first TS and the second TS as a processed output and wirelessly transmits the processed output (130, 140, 150 - Fig.2; Paragraph 00049-0051 teaches providing multiplexer 125-Fig.2, with first and second TS. Paragraph 0052-0057 teaches multiplexer 125-Fig.2 switches the transmission packet streams inputted respectively in accordance with the control of CPU 110-Fig.2 selects one of the transmission packet streams for output to be wirelessly transmitted).

Joung does not explicitly teach receives at least one of a high definition (HD) image signal input from outside and an external SD image signal from outside, converts the HD image signal into a standard definition (SD) image signal if the HD signal is received, and then converts one of the SD image signal and the external SD image signal into a second TS; and

wherein the TS converting unit comprises:

a converter, which converts the HD image signal input from outside into the SD image signal and outputs the SD image signal as an output of the converter; and

an encoding unit, which converts the external SD image signal input from outside or the output of the convert into the second TS, and

further comprises one switching unit operable to received the external SD image signal and the SD image signal output from the converter and selects one of the external SD image signal and the SD image signal output from the converter to output to the encoding unit

In an analogous art Dantwala teaches, receives at least one of a high definition (HD) image signal input from outside and an external SD image signal from outside, converts the HD image signal into a standard definition (SD) image signal if the HD signal is received, and then converts one of the SD image signal and the external SD image signal into a second output signal (Fig.2; Col 3: lines 41-51, 58-67 teaches that HD and SD signal inputs can be received. If an HD signal is received, it is downconverted to standard definition. The system "allows either standard definition or high definition video signals to be selected from the inputs 102—102b for processing" therefore, either the HD signal downconverted into an SD image signal or the external SD image signal that is passed through, is processed and output as an SD output stream); and

a converter, which converts the HD image signal input from outside into the SD image signal and outputs the SD image signal as an output of the converter (202-Fig.2; Col 3: lines 41-51, 58-67); and

a unit, which converts the external SD image signal input from outside or the output of the converter into the second output signal (Fig.2; Col 3: lines 41-51, 58-67, Col 4: lines 24-33), and

further comprises one switching unit operable to received the external SD image signal and the SD image signal output from the converter and selects one of the external SD image signal and the SD image signal output from the converter to output to the unit (Fig.2; Col 3: lines 41-51, 58-67 teaches the system "allows either standard definition or high definition video signals to be selected from the inputs 102—102b for processing" therefore, only either the HD signal downconverted into an SD image signal or the external SD image signal that is passed through, is processed and output as an SD output stream).

Therefore, it would have been obvious to a person of ordinary skill in the art to modify Joung's system to include receives at least one of a high definition (HD) image signal input from outside and an external SD image signal from outside, converts the HD image signal into a standard definition (SD) image signal if the HD signal is received, and then converts one of the SD image signal and the external SD image signal into a second output signal; and a converter, which converts the HD image signal input from outside into the SD image signal and outputs the SD image signal as an output of the converter; and a unit, which converts the external SD image signal input from outside or the output of the converter into the second output signal; and further comprises one switching unit operable to received the external SD image signal and the SD image signal output from the converter and selects one of the external SD image signal and the SD image signal output from the converter to output to the unit, as taught by Dantwala, for the advantage of allowing a variety of sources to be received,

easily handling various formats and making it compatible with the user's system, increasing usability and playability of more media sources.

Joung and Dantwala do not explicitly teach an encoding unit, converting the signal to a second TS and where the second signal is the second TS.

In an analogous art Saitoh teaches an encoding unit, converting the signal to a second TS, where the second signal is the second TS (Col 4: lines 17-20, 23-26).

Therefore, it would have been obvious to a person of ordinary skill in the art to modify the system of Joung and Dantwala to include an encoding unit, converting the signal to a second TS and where the second signal is the second TS, as taught by Saitoh, for the advantage of combining data into a container format, allowing for synchronization of output, simple management and transportation of the media signal.

Consider **claim 10**, Joung teaches a method for performing wireless transmission of television signals (100-Fig.2; Paragraph 0022, 0025, 0075) comprising:

receiving a digital broadcasting signal and converting the digital broadcasting signal into a first transport stream (TS) (digital broadcast receiving unit 121-Fig.2; Paragraph 0044);

a TS converting unit (120-Fig.2);

transmitting one of the first TS and the second TS over a wireless medium (130, 140, 150 - Fig.2; Paragraph 000049-0051 teaches providing multiplexer 125-Fig.2, with first and second TS. Paragraph 0052-0057 teaches multiplexer 125-Fig.2 switches the transmission packet streams inputted respectively in accordance with the control of CPU 110-Fig.2 selects one of the transmission packet streams for output to be wirelessly transmitted).

Joung does not explicitly teach receiving at least one of an external high definition (HD) image signal and an external standard definition (SD) image signal, converting the external HD image signal into an internal SD image signal if the external HD image signal is received, one switching between one of internal SD image signal and the external SD image signal; and converting one of the internal SD image signal and the external SD image signal into a second TS

wherein the converting one of the internal SD image signal and the external SD image signal into a second TS comprises:

encoding one of the external SD image signal and the internal SD image signal into the second TS ; and

converting one of the internal SD image signal and the external SD image signal received from the one switching, into the second TS

In an analogous art Dantwala teaches, receiving at least one of an external high definition (HD) image signal and an external standard definition (SD) image signal, converting the external HD image signal into an internal SD image signal if the external HD image signal is received, one switching between



one of internal SD image signal and the external SD image signal; and converting one of the internal SD image signal and the external SD image signal into a second output signal (Fig.2; Col 3: lines 41-51, 58-67 teaches that HD and SD signal inputs can be received. If an HD signal is received, it is downconverted to standard definition. The system "allows either standard definition or high definition video signals to be selected from the inputs 102—102b for processing" therefore, either the HD signal downconverted into an SD image signal or the external SD image signal that is passed through, is processed and output as an SD output stream); and

wherein the converting one of the internal SD image signal and the external SD image signal into a second output signal comprises: encoding one of the external SD image signal and the internal SD image signal into the second output signal; and converting one of the internal SD image signal and the external SD image signal received from the one switching, into the second output signal (Fig.2; Col 3: lines 41-51, 58-67, Col 4: lines 24-33).

Therefore, it would have been obvious to a person of ordinary skill in the art to modify Joung's system to include receiving at least one of an external high definition (HD) image signal and an external standard definition (SD) image signal, converting the external HD image signal into an internal SD image signal if the external HD image signal is received, one switching between one of internal SD image signal and the external SD image signal; and converting one of the internal SD image signal and the external SD image signal into a second output

signal; and wherein the converting one of the internal SD image signal and the external SD image signal into a second output signal comprises: encoding one of the external SD image signal and the internal SD image signal into the second output signal; and converting one of the internal SD image signal and the external SD image signal received from the one switching, into the second output signal, as taught by Dantwala, for the advantage of allowing a variety of sources to be received, easily handling various formats and making it compatible with the user's system, increasing usability and playability of more media sources.

Joung and Dantwala do not explicitly teach an encoding unit, converting the signal to a second TS, where the second signal is the second TS.

In an analogous art Saitoh teaches encoding and converting the signal to a second TS and where the second signal is the second TS (Col 4: lines 17-20, 23-26).

Therefore, it would have been obvious to a person of ordinary skill in the art to modify the system of Joung and Dantwala to include an encoding unit, converting the signal to a second TS and where the second signal is the second TS, as taught by Saitoh, for the advantage of combining data into a container format, allowing for synchronization of output, simple management and transportation of the media signal.

Consider **claim 2**, Joung, Dantwala, and Saitoh teach another switching unit which receives the first TS and the second TS and outputs one of the first TS

and the second TS as an output of the other switching unit (Joung - Paragraph 000049-0051 teaches providing multiplexer 125-Fig2, with first and second TS. Paragraph 0052-0057 teaches multiplexer 125-Fig.2 switches the transmission packet streams inputted respectively in accordance with the control of CPU 110-Fig.2 selects one of the transmission packet streams for output to be wirelessly transmitted; Dantwala - Fig.2; Col 3: lines 41-51, 58-67; Saitoh - Col 4: lines 17-20, 23-26).

Consider **claim 17**, Joung, Dantwala, and Saitoh teach another switching unit which receives the first TS and the second TS and outputs one of the first TS and the second TS as an output to the wireless processing module (Joung – Fig.2; Paragraph 000049-0051 teaches providing multiplexer 125-Fig2, with first and second TS. Paragraph 0052-0057 teaches multiplexer 125-Fig.2 switches the transmission packet streams inputted respectively in accordance with the control of CPU 110-Fig.2 selects one of the transmission packet streams for output to be wirelessly transmitted; Dantwala - Fig.2; Col 3: lines 41-51, 58-67; Saitoh - Col 4: lines 17-20, 23-26).

Consider **claim 19**, Joung, Dantwala, and Saitoh teach another switching between the first TS and the second TS for the transmitting over the wireless medium (Joung – Fig.2; Paragraph 000049-0051 teaches providing multiplexer 125-Fig2, with first and second TS. Paragraph 0052-0057 teaches multiplexer

125-Fig.2 switches the transmission packet streams inputted respectively in accordance with the control of CPU 110-Fig.2 selects one of the transmission packet streams for output to be wirelessly transmitted; Dantwala - Fig.2; Col 3: lines 41-51, 58-67; Saitoh - Col 4: lines 17-20, 23-26).

5. **Claims 3, 8, and 11** are rejected under 35 U.S.C. 103(a) as being unpatentable over Joung et al. (US 2003/0131360), in view of Dantwala et al. (US 6,847,406), in view of Saitoh et al. (US 6,839,851), and further in view of Levandowski (US 6,704,060).

Consider **claim 3**, Joung, Dantwala, and Saitoh teach output of the other switching unit (Joung - Paragraph 000049-0051 teaches providing multiplexer 125-Fig2, with first and second TS. Paragraph 0052-0057 teaches multiplexer 125-Fig.2 switches the transmission packet streams inputted respectively in accordance with the control of CPU 110-Fig.2 selects one of the transmission packet streams for output), but do not explicitly teach a decoding unit which decodes the output and outputs a decoded TS stream to an image device connected to the set top box by a wire.

In an analogous art Levandowski teaches a decoding unit which decodes the output and outputs a decoded TS stream to an image device connected to the set top box by a wire (Col 3: lines 33-47).

Therefore, it would have been obvious to a person of ordinary skill in the art to modify the system of Joung, Dantwala, and Saitoh to include a decoding unit which decodes the output and outputs a decoded TS stream to an image

device connected to the set top box by a wire, as taught by Levandowski, for the advantage of supplying a display device readily displayable content, alleviating the need for complex decoding circuitry at the display device, allowing for cheaper manufacturing of corresponding display devices.

Consider **claim 8**, Joung, Dantwala, Saitoh, and Levandowski teach wherein the digital television receiver is an advanced television system committee (ATSC) receiver (Joung - Paragraph 0044).

Consider **claim 11**, Joung, Dantwala, and Saitoh teach the first TS and the second TS (Joung - Paragraph 00049-0051 teaches providing multiplexer 125-Fig2, with first and second TS; Dantwala - Fig.2; Col 3: lines 41-51, 58-67; Saitoh - Col 4: lines 17-20, 23-26), but do not explicitly teach decoding the TS and transmitting a decoded signal to an image device through a wire.

In an analogous art Levandowski teaches decoding the TS and transmitting a decoded signal to an image device through a wire (Col 3: lines 33-47).

Therefore, it would have been obvious to a person of ordinary skill in the art to modify the system of Joung, Dantwala, and Saitoh to include decoding the TS and transmitting a decoded signal to an image device through a wire, as taught by Levandowski, for the advantage of supplying a display device readily

displayable content, alleviating the need for complex decoding circuitry at the display device, allowing for cheaper manufacturing of corresponding display devices.

6. **Claims 5, 7, 9, and 13** are rejected under 35 U.S.C. 103(a) as being unpatentable over Joung et al. (US 2003/0131360), in view of Dantwala et al. (US 6,847,406), in view of Saitoh et al. (US 6,839,851), and further in view of Margulis (US 2001/0021998).

Consider **claim 5**, Joung, Dantwala, and Saitoh teach wherein the converter comprises: a down converter, which converts the HD image signal into the SD image signal (Dantwala - 202-Fig.2; Col 3: lines 41-51, 58-67), but do not explicitly teach an analog-to-digital converter (ADC), which converts the HD image signal input from outside into a digital signal; and converts the HD image signal converted into the digital signal into the SD image signal.

In an analogous art Margulis teaches an analog-to-digital converter (ADC), which converts the HD image signal input from outside into a digital signal (Paragraph 0062 teaches subsystem processor 518 – Fig.5, 6 may receive HDTV video programming. Paragraph 0058 and 0066 teaches a digitizer 516 – Fig. 5 {ADC} | ADC/Demod 517 – Fig. 6 {ADC} that converts analog video into digital video for use by subsystem processor); and  
converts the HD image signal converted into the digital signal into the SD image signal (subsystem processor 518 – Fig.5, 6; Paragraph 0062 teaches

receiving HDTV video programming at the subsystem processor 518 – Fig.5 and generating a standard definition television stream).

Therefore, it would have been obvious to a person of ordinary skill in the art to modify the system of Joung, Dantwala, and Saitoh to include an analog-to-digital converter (ADC), which converts the HD image signal input from outside into a digital signal; and converts the HD image signal converted into the digital signal into the SD image signal, as taught by Margulis, for the advantage of allowing a variety of sources to be received including raw HD media, handling various formats and making it compatible for use with the user's system, increasing usability and playability of more media sources.

Consider **claim 7**, Joung, Dantwala, and Saitoh teach the wireless processing module wirelessly transmits the processed output (Joung - Paragraph 0022, 0025, 0054), but do not explicitly teach transmitting the processed output in a radio frequency range.

Margulis further teaches transmitting the processed output in a radio frequency range (Paragraph 0051, 0055, 0069).

Therefore, it would have been obvious to a person of ordinary skill in the art to modify the system of Joung, Dantwala, Saitoh, and Margulis to include transmitting the processed output in a radio frequency range, as further taught by Margulis, for the advantage of providing efficient and interference free

transmission of media since most of frequency range is beyond the vibration rate that most mechanical systems can respond to.

Consider **claim 9**, Joung, Dantwala, Saitoh, and Margulis teach wherein the digital television receiver is an advanced television system committee (ATSC) receiver (Joung - Paragraph 0044).

Consider **claim 13**, Joung, Dantwala, and Saitoh teach wherein converting the external HD image signal into an internal SD image signal comprises: down converting the signal into the internal SD image signal (Dantwala - 202-Fig.2; Col 3: lines 41-51, 58-67), but do not explicitly teach converting the external HD image signal into a digital signal; and down converting the digital signal into the internal SD image signal.

In an analogous art Margulis teaches converting the external HD image signal into a digital signal (Paragraph 0062 teaches subsystem processor 518 – Fig.5, 6 may receive HDTV video programming. Paragraph 0058 and 0066 teaches a digitizer 516 – Fig. 5 {ADC} | ADC/Demod 517 – Fig. 6 {ADC} that converts analog video into digital video for use by subsystem processor); and down converting the digital signal into the internal SD image signal (subsystem processor 518 – Fig.5, 6; Paragraph 0062 teaches receiving HDTV video programming at the subsystem processor 518 – Fig.5 and generating a standard definition television stream).



Therefore, it would have been obvious to a person of ordinary skill in the art to modify the system of Joung, Dantwala, and Saitoh to include converting the external HD image signal into a digital signal; and down converting the digital signal into the internal SD image signal, as taught by Margulis, for the advantage of allowing a variety of sources to be received including raw HD media, handling various formats and making it compatible for use with the user's system, increasing usability and playability of more media sources.

Consider **claim 15**, Joung, Dantwala, and Saitoh teach transmitting one of the first TS and the second TS over wireless medium (Joung - Paragraph 0022, 0025, 0054; Paragraph 000049-0051 teaches providing multiplexer 125-Fig2, with first and second TS; Dantwala - Fig.2; Col 3: lines 41-51, 58-67; Saitoh - Col 4: lines 17-20, 23-26), but do not explicitly teach transmission is done at a radio frequency.

In an analogous art Margulis teaches transmission is done at a radio frequency (Paragraph 0051, 0055, 0069).

Therefore, it would have been obvious to a person of ordinary skill in the art to modify the system of Joung, Dantwala, and Saitoh to include transmission is done at a radio frequency, as taught by Margulis, for the advantage of providing efficient and interference free transmission of media since most of frequency range is beyond the vibration rate that most mechanical systems can respond to.

7. **Claims 6 and 14** are rejected under 35 U.S.C. 103(a) as being unpatentable over Joung et al. (US 2003/0131360), in view of Dantwala et al. (US 6,847,406), in view of Saitoh et al. (US 6,839,851), in view of Levandowski (US 6,704,060), and further in view of Margulis (US 2001/0021998).

Consider **claim 6**, Joung, Dantwala, Saitoh, and Levandowski teach the wireless processing module wirelessly transmits the processed output (Joung - Paragraph 0022, 0025, 0054), but do not explicitly teach transmitting the processed output in a radio frequency range.

In an analogous art Margulis teaches transmitting the processed output in a radio frequency range (Paragraph 0051, 0055, 0069).

Therefore, it would have been obvious to a person of ordinary skill in the art to modify the system of Joung, Dantwala, Saitoh, and Levandowski to include transmitting the processed output in a radio frequency range, as taught by Margulis, for the advantage of providing efficient and interference free transmission of media since most of frequency range is beyond the vibration rate that most mechanical systems can respond to.

Consider **claim 14**, Joung, Dantwala, Saitoh, and Levandowski teach transmitting one of the first TS and the second TS over wireless medium (Joung - Paragraph 0022, 0025, 0054; Paragraph 000049-0051 teaches providing multiplexer 125-Fig2, with first and second TS; Dantwala - Fig.2; Col 3: lines 41-

51, 58-67; Saitoh - Col 4: lines 17-20, 23-26), but do not explicitly teach transmission is done at a radio frequency.

In an analogous art Margulis teaches transmission is done at a radio frequency (Paragraph 0051, 0055, 0069).

Therefore, it would have been obvious to a person of ordinary skill in the art to modify the system of Joung, Dantwala, Saitoh, and Levandowski to include transmission is done at a radio frequency, as taught by Margulis, for the advantage of providing efficient and interference free transmission of media since most of frequency range is beyond the vibration rate that most mechanical systems can respond to.

### ***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to JASON K. LIN whose telephone number is (571)270-1446. The examiner can normally be reached on Mon-Fri, 9:00AM-6:00PM, EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Brian T. Pendleton can be reached on (571)272-7527. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Jason Lin  
Examiner, Art Unit: 2425

/Brian T. Pendleton/  
Supervisory Patent Examiner, Art Unit 2425